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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,418	07/09/2004	Sam Shiaw-Shiang Jiang	5413-0184PUS1	4417
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BIRCH, STEWART, KOLASCH & BIRCH, LLP 8110 GATEHOUSE ROAD			ANDREWS, LEON T	
SUITE 100 EAST FALLS CHURCH, VA 22315			ART UNIT	PAPER NUMBER
			2616	
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			11/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
•	10/710,418	JIANG, SAM SHIAW-SHIANG				
Office Action Summary	Examiner	Art Unit				
•	Leon Andrews	2616				
The MAILING DATE of this communication a	ppears on the cover sheet w	rith the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statuenty and the provided period for reply will, by statuenty reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a Ind will apply and will expire SIX (6) MO Ute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>09</u>	July 2004.					
,-	, , , , , , , , , , , , , , , , , , ,					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	r Ex parte Quayle, 1935 C.I	J. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdr	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-17</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	/or election requirement					
are subject to restriction and	ror cicolori requirement.					
Application Papers						
9) The specification is objected to by the Exami						
10)⊠ The drawing(s) filed on <u>09 July 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the						
,	Examinor. Note the attache					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a) All b) Some * c) None of:	nto have been received					
1. Certified copies of the priority docume2. Certified copies of the priority docume		Application No				
3. Copies of the certified copies of the pr						
application from the International Bure		•				
* See the attached detailed Office action for a li	st of the certified copies no	t received.				
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Attachment(s)	-					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/20/2006. 		(s)/Mail Date Informal Patent Application				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-17 are rejected under 35 U.S.C. 102(e) as being unpatentable by Johansson et al.

(Patent No.: US 6,947,394 B1).

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Regarding Claim 1, Johansson et al. discloses a method (method, column 3, line 13) for detecting a lost status report (no status report is

received, column 4, line 38) by a receiver (Fig. 1, UE 16) in a communications system (communications system, column 1, lines 17-18), the communications system including a receiver (Fig. 1, UE 16) and a sender (Fig.1, UE 12) wherein data is communicated by acknowledged mode data (AMD) protocol data units (PDUs) (Fig. 1, AMD PDU 14), the method comprising:

sending a first status report to the sender in response to a first trigger (function that can trigger when a transmitter polls the receiver for a status report by use of a poll timer, column 4, lines 35-36);

initiating a roundtrip timer (poll timer starts timing when a poll is transmitted to the peer entity, column 4, lines 37-38); after expiry of the roundtrip timer (poll timer has expired, column 4, line 38), receiving a predetermined AMD PDU (Fig. 1, AMD PDU 14) before all negatively acknowledged AMD PDUs identified in the first status report are received at the receiver (receiving side detects missing AM PDUs and sends a status report to the transmitting side, column 6, lines 24-26); and determining that a second status report (transmitting side transmits a new status report to the peer entity, column 6, lines 22-23) is required.

Regarding Claim 2, Johansson et al. discloses the method of claim 1, wherein the step of determining that a second status report (if the receiving side detects missing AM PDUs, the receiving side immediately transmits the status report to the transmitting side, column 6, lines 27-32) is required further comprises sending the second status report to the sender.

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Regarding Claim 3, Johansson et al. discloses the method of claim 1, wherein determining that a second status report (receiving side immediately transmits the status report to the transmitting side after the EPC counter has expired, column 6, lines 28-32) is required further comprises: determining that a status report is not prohibited; and sending the second status report to the sender.

Regarding Claim 4, Johansson et al. discloses the method of claim 3, wherein determining that a status report is not prohibited (receiving side immediately transmits the status report to the transmitting side after the EPC counter has expired, column 6, lines 28-32) is performed by checking a status report prohibit timer (receiving side is not allowed to send status reports to the peer entity while the Tprohibit timer is running, column 6, lines 54-56).

Regarding Claim 5, Johansson et al. discloses the method of claim 1, wherein duration of the roundtrip timer is set at least to a sum of a propagation delay (Table 2, plausibility check) and at least a processing time (Table 1, poll timer) of the sender or the receiver.

Regarding Claim 6, Johansson et al. discloses the method of claim 1, wherein duration of the roundtrip timer is set to at least a sum of the roundtrip propagation delay (Table 2, plausibility check), the processing time of the sender (Table 1, poll timer), and the processing time of the receiver (Table 3, Tprohibit).

Regarding Claim 7, Johansson et al. discloses the method of claim 1, wherein the

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predetermined AMD PDU is an AMD PDU not negatively acknowledged in the first status report (EPC counter expires before all the AM PDUs have been received, column 6, lines 19-21).

Regarding Claim 8, Johansson et al. discloses the method of claim 1, wherein the predetermined AMD PDU is an AMD PDU with a polling bit set (AMD PDU includes a polling bit, column 3, lines 62-63).

Regarding Claim 9, Johansson et al. discloses the method of claim 1, wherein the predetermined AMD PDU is the last negatively acknowledged AMD PDU in the first status report (trigger event when the transmitter polls the receiver for a status report and the last PDU in the transmission buffer is transmitted, column 4, lines 28-31).

Regarding Claim 10, Johansson et al. discloses the method of claim 1, wherein the first trigger is detecting an expiration of a periodic timer (trigger event when the transmitter polls the receiver for a status report and sends a new poll to the receiver before the poll timer expires, column 4, lines 35-40).

Regarding Claim 11, Johansson et al. discloses the method of claim 1, wherein the first trigger is receiving an AMD PDU with a polling bit set (AMD PDU includes a polling bit, column 3, lines 62-63).

Regarding Claim 12, Johansson et al. discloses the method of claim 1, wherein the first trigger

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is detecting at least a missing AMD PDU (Table 3, if the receiving side detects missing AM PDUs, it transmits the status report immediately, column 6, lines 27-29).

Regarding Claim 13, Johansson et al. discloses the method of claim 1, wherein the first status report is current and the second status report is subsequent, the method further comprising iteratively repeating all steps taking the subsequent status report as the first status report (ARQ protocol allows the use of efficient retransmission between the sending and receiving sides by enabling the receiving side to correctly convey the PDUs and to respond accordingly, column 1, lines 38-44).

Regarding Claim 14, Johansson et al. discloses the method of claim 1, wherein the second status report contains an updated receiving status of the receiver (updating the transmission window according to the information received in the status report, column 5, lines 7-9).

Regarding Claim 15, Johansson et al. discloses the method of claim 1, wherein sending a first status report to the sender in response to a first trigger (function that can trigger when a transmitter polls the receiver for a status report by use of a poll timer, column 4, lines 35-36) further comprises: delaying sending a third status report to the sender in response to a second trigger (receiving side is delayed from sending a status report immediately to the transmitting side upon receipt of the poll, because the EPC counter is running, columns 5 ad 6, lines 66-67 and 1 respectively).

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Regarding Claim 16, Johansson et al. discloses the method of claim 15, wherein the second trigger is an expiration of a periodic timer (trigger event when the transmitter polls the receiver for a status report and sends a new poll to the receiver before the poll timer expires, column 4, lines 35-40).

Regarding Claim 17, Johansson et al. discloses the method of claim 15, wherein after determining that a second status report (transmitting side transmits a new status report to the peer entity, column 6, lines 22-23) is required: receiving all negatively acknowledged AMD PDUs identified in the first status report; determining that the first status report is received by the sender; and sending the third status report (receiving side sends a status report immediately to the transmitting side upon receipt of the poll, but after the EPC counter has expired, columns 5 ad 6, lines 66-67 and 1-4 respectively) in response to the delayed second trigger.

Citation of Pertinent Prior Art

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Raith (Patent No.: US 6,611,688 B1) discloses position reporting method for a mobile terminal in a mobile communication network.

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Wu (Pub. No.: 2007/0081511 A1) discloses method for handling status report prohibit timer after re-establishment in a wireless communications system.

Wu (Pub. No.: US 2007/0115912 A1) discloses method for handling periodic status report timer after an RLC reset in a wireless communications system.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leon Andrews whose telephone number is (571) 270-1801. The examiner can normally be reached on Monday through Friday 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rao S. Seema can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LA/la A November 2, 2007

KWANG BIN YAO SUPERVISORY PATENT EXAMINER

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